

AN - 1983-714624 [29]

II - Injection moulded non-oxide ceramic - contains sintering aid, thermoplastic resin, lubricating agent and plasticiser before sintering

AB - Compsn. consists of nonoxide ceramic powder as the main component, sintering aid, thermoplastic resin, lubricating agent and plasticiser. The lubricating agent and the plasticiser are employed at the time of injection moulding, and the thermoplastic resin is at least one acrylic acid. S Pref. thermoplastic resin, lubricating agent and plasticiser are blended in amt. of 15-50 pts.wt. in total to 100 pts. wt. of the sum of nonoxide ceramic powder and sintering aid. The thermoplastic resin is pref. a copolymer made of 1-5 pts.wt. acrylic acid and/or methacrylic acid, 30-85 pts.wt. acrylate ester and 10-69 pts.wt. methacrylate ester. The thermoplastic resin is pref. blended in an amt. 10-45 pts.wt. per 100 pts.wt. of the sum of the nonoxide ceramic powder and the sintering aid. The ceramic is pref. at least one of silicon carbide, boron carbide, aluminium carbide, tungsten carbide, titanium carbide, tantalum carbide, zirconium carbide, silicon nitride, boron nitride, aluminium nitride, titanium nitride, tantalum nitride and zirconium nitride. The lubricating agent is pref. at least one of stearic acid, fatty acid, fatty alcohol, fatty acid ester and hydrocarbon wax, and is employed in an amt. 2-12 pts.wt. per 100 pts.wt. of the ceramic powder and its sintering aid. Good properties are obtnd.

IV - INJECTION MOULD NON OXIDE CERAMIC CONTAIN SINTER AID THERMOPLASTIC RESIN LUBRICATE AGENT PLASTICISED

PN - JP58099171 A 19830613 DW198329 JP2033664B B 19900730 DW199034

IC - B28B1/24; C04B35/56

ICAI - B28B1/24; C04B35/00; C04B35/56; C04B35/58; C04B35/632

ICCI - B28B1/24; C04B35/00; C04B35/56; C04B35/58; C04B35/63

MC - A04-F04 A04-F06B A08-M03 A08-P01 A12-W12D L02-H02

DC - A14 A81 L02
- P64

PA - (IBIG) IBIDEN CO LTD

AP - JP19810196997 19811209

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